

CUSTOMER NO.: 24498

Serial No. 09/640,104

Reply to Office Action dated: 7/31/06

Response dated: 10/16/06

**PATENT
PD990048**

**RECEIVED
CENTRAL FAX CENTER**

OCT 16 2006

Amendments to the Claims

Please amend claims 4, 11 and 14 as follows:

1. (Previously Presented) A method for reproducing a digital data stream containing program information for trick mode display, said method including the steps:
 - a) decoding the incoming digital data stream in normal playmode,
 - b) creating a group of picture structure history during said decoding step,
 - c) storing said history,
 - d) editing for playback in trick mode said digital data stream using said history,
 - e) decoding said digital data stream edited for trick mode display.
2. (Previously Presented) The method of claim 1, wherein said step a) includes the step of:
 - f) maintaining and displaying a last decoded picture during said step e).
3. (Previously Presented) The method of claim 2, wherein said step e) includes the step of:
 - g) decoding invisibly using two frame buffers.
4. (Currently Amended) The method of claim 1, wherein said step of decoding said edited bit stream includes the step of:
 - h) decoding a B-frame without storing its content in a frame buffer.
5. (Previously Presented) The method of claim 1, comprising a further step of:
 - i) controlling trick mode playback responsive to a trick mode controller.
6. (Previously Presented) The method of claim 5, wherein said step i) comprises the following steps:
 - receiving a trick mode command,
 - acquiring said history responsive to said trick mode command,

CUSTOMER NO.: 24498

Serial No. 09/640,104

Reply to Office Action dated: 7/31/06

Response dated: 10/16/06

**PATENT
PD990048**

controlling data stream selection,
enabling said bit stream editing for trick mode playback,
decoding said digital data stream edited for trick mode playback,
displaying a picture or a sequence of pictures decoded for trick mode
playback.

7. (Previously Presented) The method of claim 5, wherein said step I) comprises the following steps:

receiving a command from a mode request unit,
acquiring said history based on said mode command,
controlling data stream selection,
editing said bit stream for trick mode application,
controlling said decoding of said bitstream,
adding a time stamp to said bit stream to provide display switching
information.

8. (Original) A digital device for reproducing a digital data stream containing program information for trick mode display, comprising:

a decoder for decoding the incoming digital data stream in normal
playmode,
extraction means for creating a group of picture structure history during
normal decoding,
a memory coupled to said extraction means for storing said history,
an editor coupled to said memory for editing said digital data stream using
said history for playback in trick mode,
a decoder for decoding said edited bit stream for trick mode, and
an output for providing that decoded target picture or a sequence of target
pictures for displaying.

9. (Original) The device of claim 8, further comprising:

an enabling means for controlling the display of the last decoded picture
during decoding of said edited bit stream for trick mode.

CUSTOMER NO.: 24498

Serial No. 09/640,104

Reply to Office Action dated: 7/31/06

Response dated: 10/16/06

**PATENT
PD990048**

10. (Original) The device of claim 9, further comprising:
two frame buffers for storing the decoded bit streams.
11. (Currently Amended) The device of claim 10, wherein:
said decoding of said edited bit stream for trick mode is performed on a B-frame without storing its content in a frame buffer.
12. (Original) The device of claim 8, further comprising:
a trick mode controller for controlling said playback in trick mode.
13. (Original) The device of claim 12, further comprising:
a mode request unit coupled to said trick mode controller, and responsive to said mode request unit said trick mode controller accesses said history from said memory,
a pick-up device controllably coupled to said trick mode controller for controlling data stream selection,
wherein in trick mode application said trick mode controller is controllably coupled to said editor to enable said bitstream editing, and said trick mode controller is controllably coupled to said decoder for controlling said decoding, and said trick mode controller is controllably coupled to said output for initiating said display switch to display said target picture or a sequence of target pictures.
14. (Currently Amended) The device of claim 12, ~~wherein~~ further comprising comprises:
a mode request unit coupled to said trick mode controller, and responsive to said mode request unit said trick mode controller accesses said history from said memory,
a pick-up device controllably coupled to said trick mode controller for controlling data stream selection,
wherein in trick mode application said trick mode controller enables said editor for editing said bit stream, and said trick mode controller being controllably

CUSTOMER NO.: 24498

Serial No. 09/640,104

Reply to Office Action dated: 7/31/06

Response dated: 10/16/06

**PATENT
PD990048**

coupled to said decoder for controlling decoding, and wherein said trick mode controller adds a time stamp to said bit stream to provide display switching information.